

Fig. 1

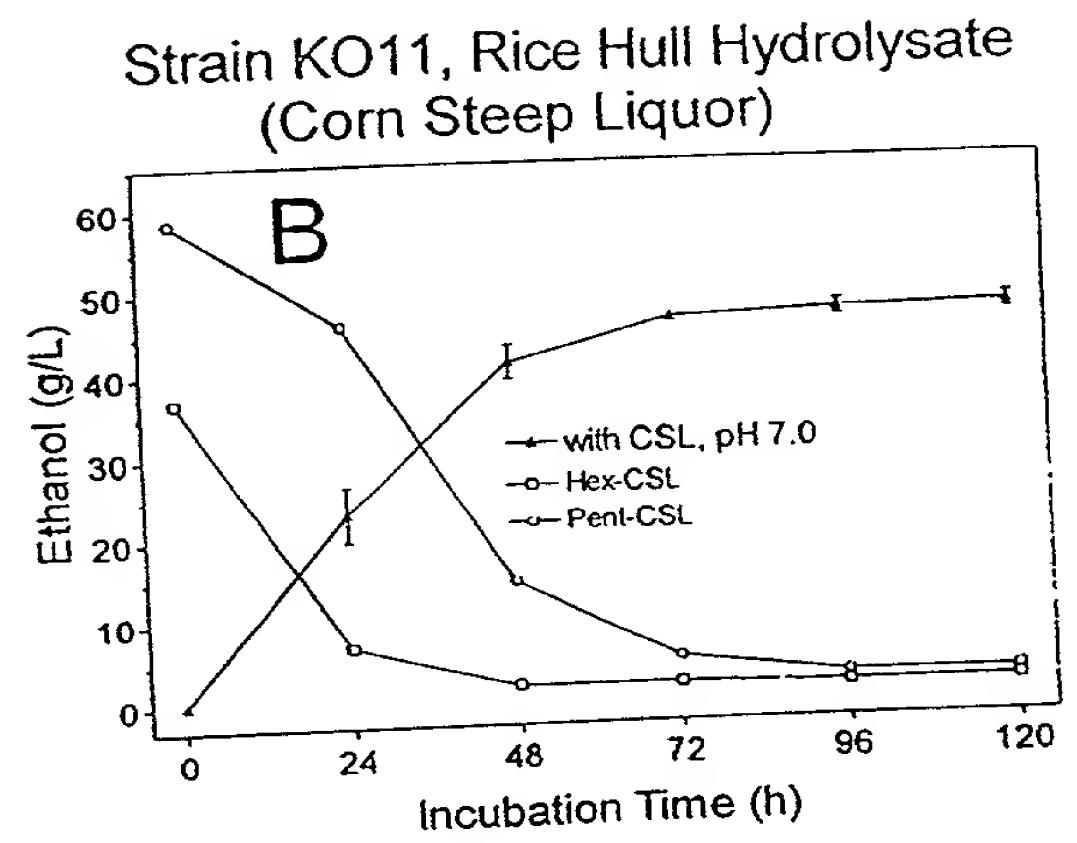
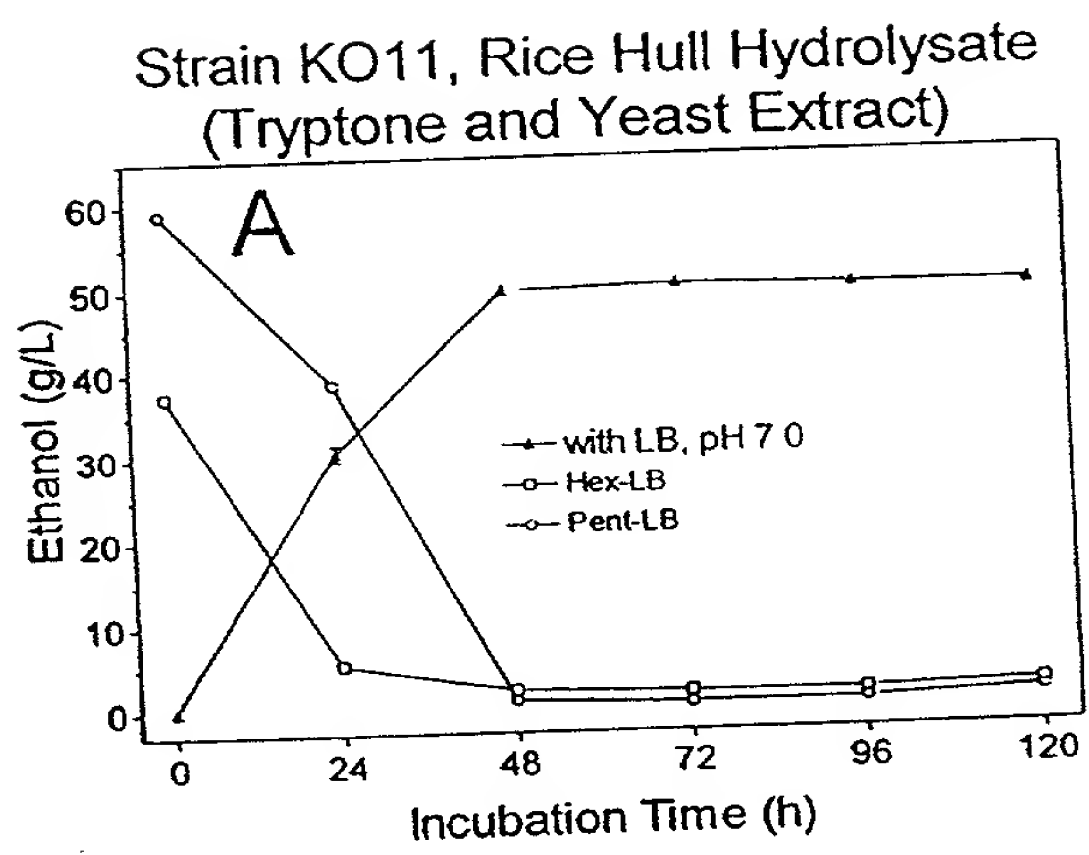


Fig. 2

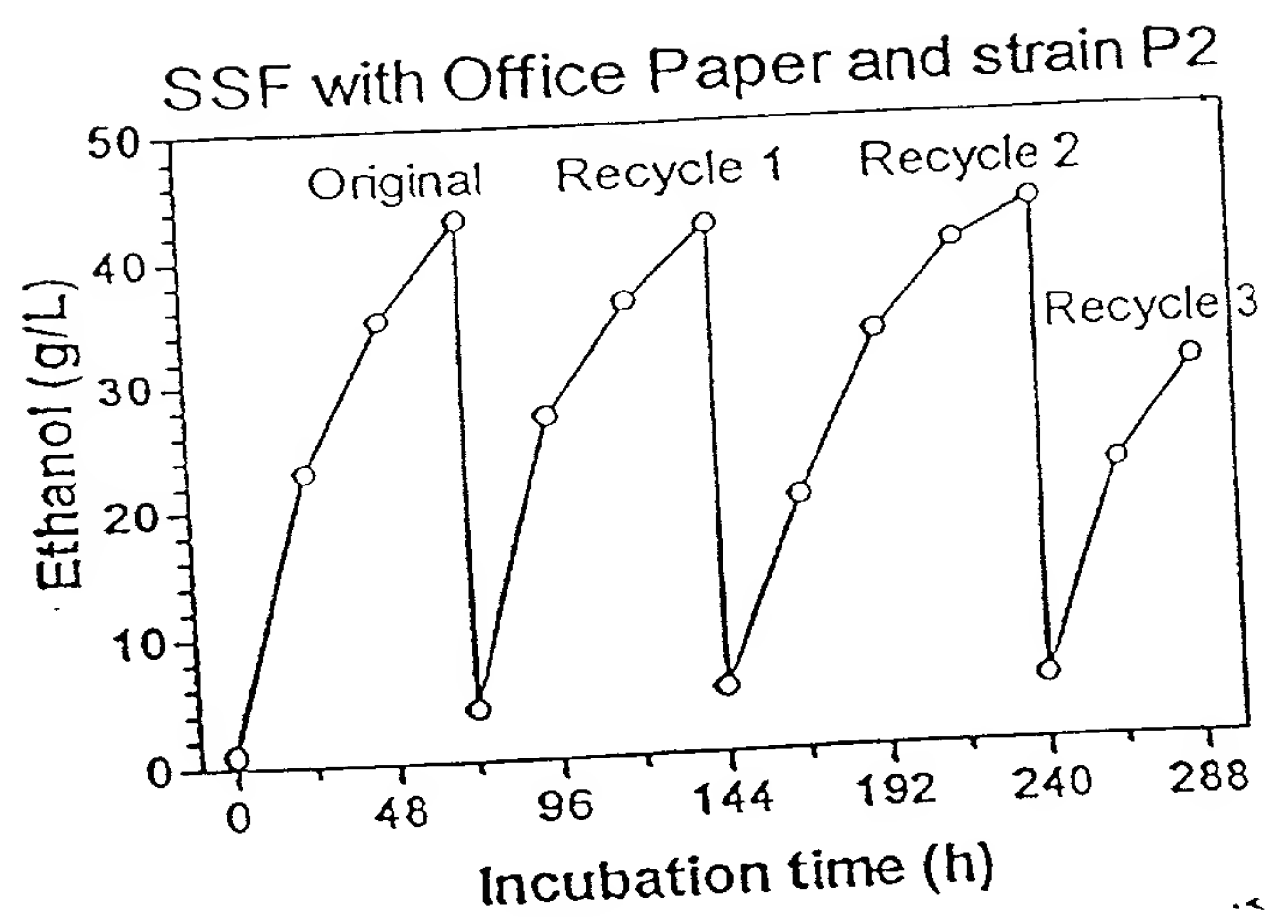


Fig. 3

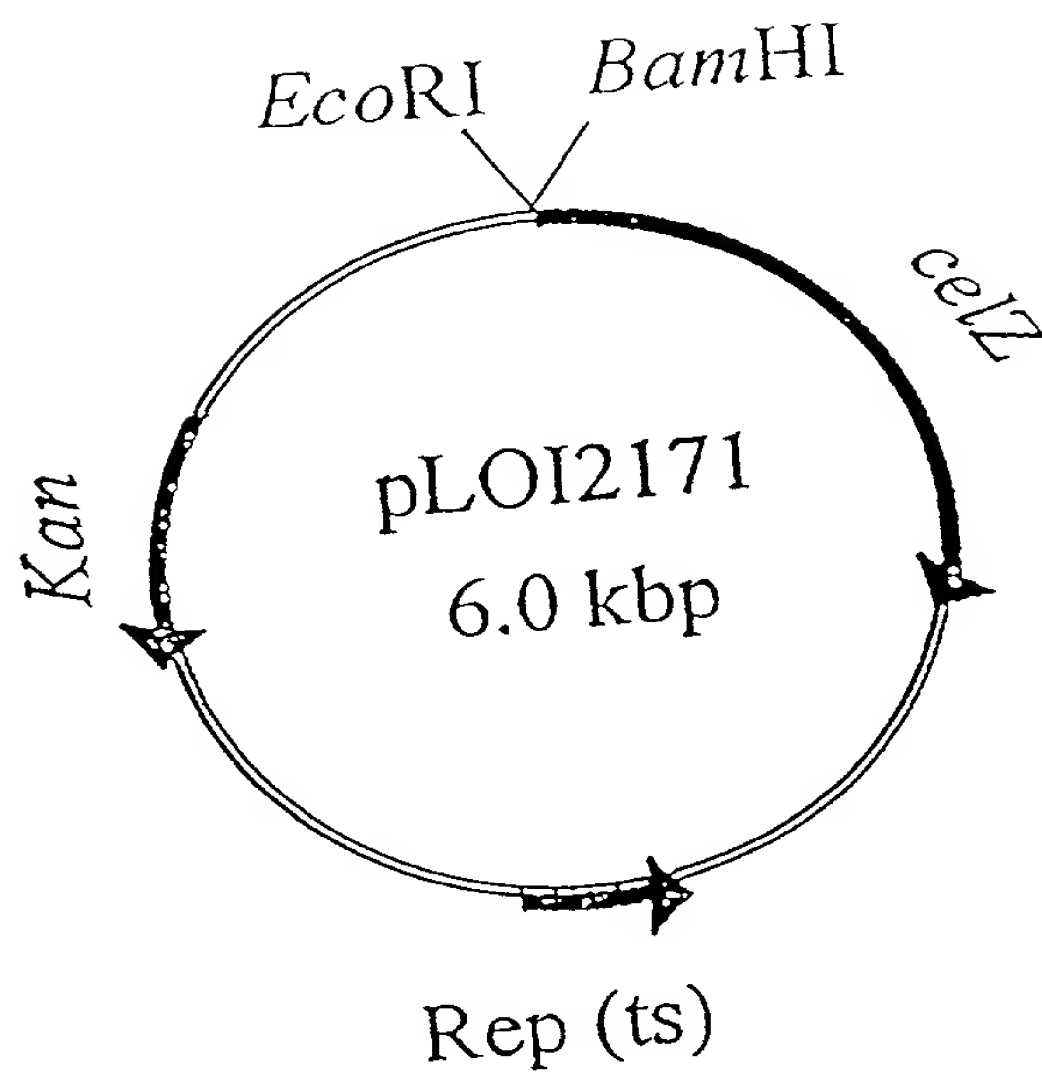


Fig. 4

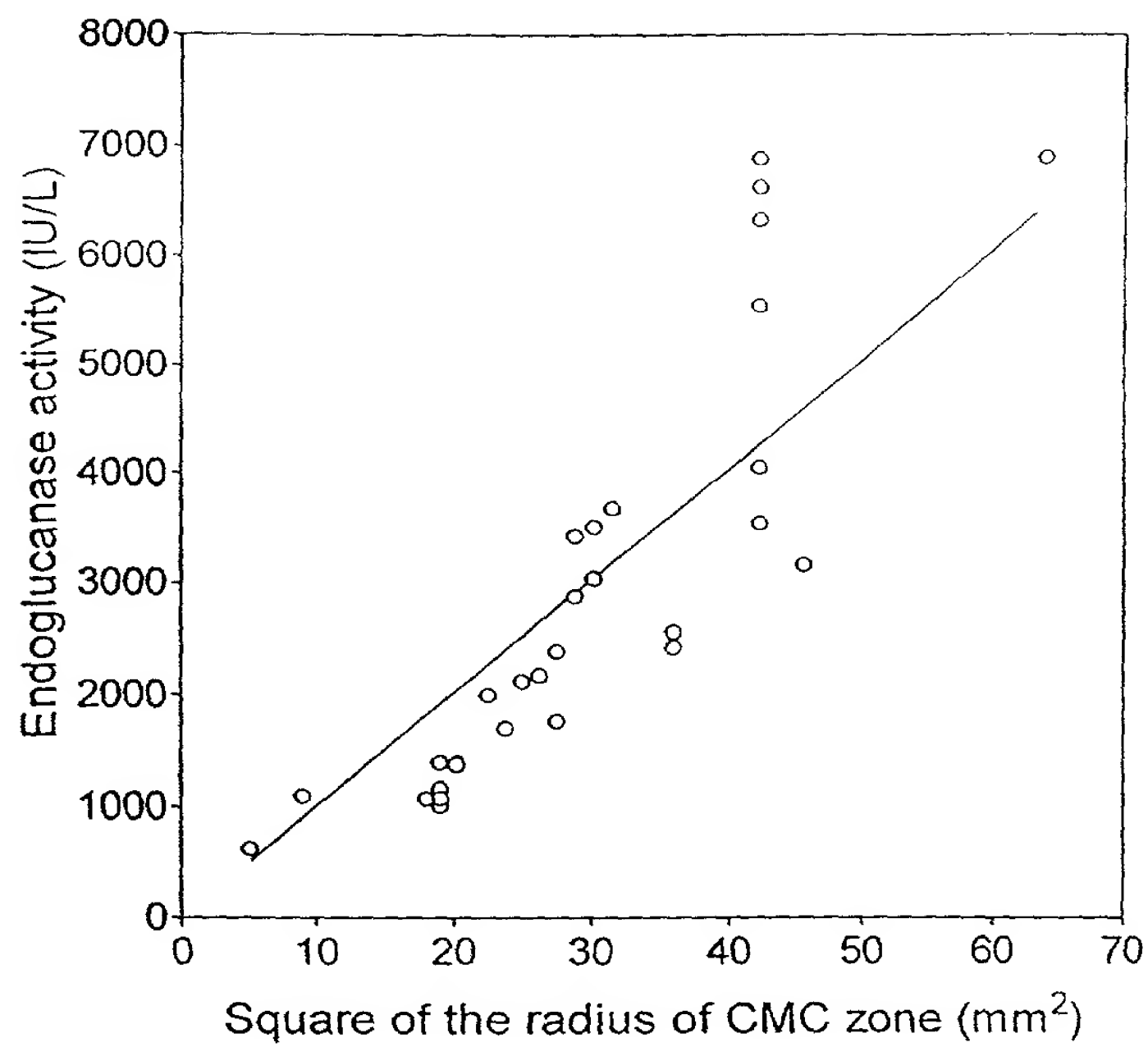


Fig. 5

1051 CTTTTTCGGC ATGAGCAACC AACATTTTCA AGGTATCATC CTGATGCGCA
-35 region -10 region #
1101 ATATCGGCAT CGGTTAGCCA TAACCATTTT ACCTGTCCGG CGGCCTTAAT
1151 ACCTTGATCA GATGGTTCGT GGTGTTGTTA CCTTGCCGAA GGGCACCGGT
1201 AAAAATGTTC GCGTCGGTGT TTTCGCCCGT GGCCCGAAAG CTGAAGAAGC
1251 TAAAGCTGCT GGTGCAGAAG TTGTCGGCGC AGAAGACCTG ATGGAAGCCA
1301 TTCAGGGCGG CAGCATTGAT TTCGATCGTG ATGCCCTTIA TACTGAAATT
-35 region -10 region #
1351 GCCTTGCGCT GCCATAATGA AGCAGCCTCC GGTGTTTTGG CAGATTTAAG

1401 CGCTGCCTGA TTTTCGTgat cctctagagt ctatgaaatg gagattcatt
Shine-Dalgarno
1451 tatgcctctc tcttattcgg ataaccatcc agtcatccgc aagcttggcc
celZ coding region-->

Fig. 6

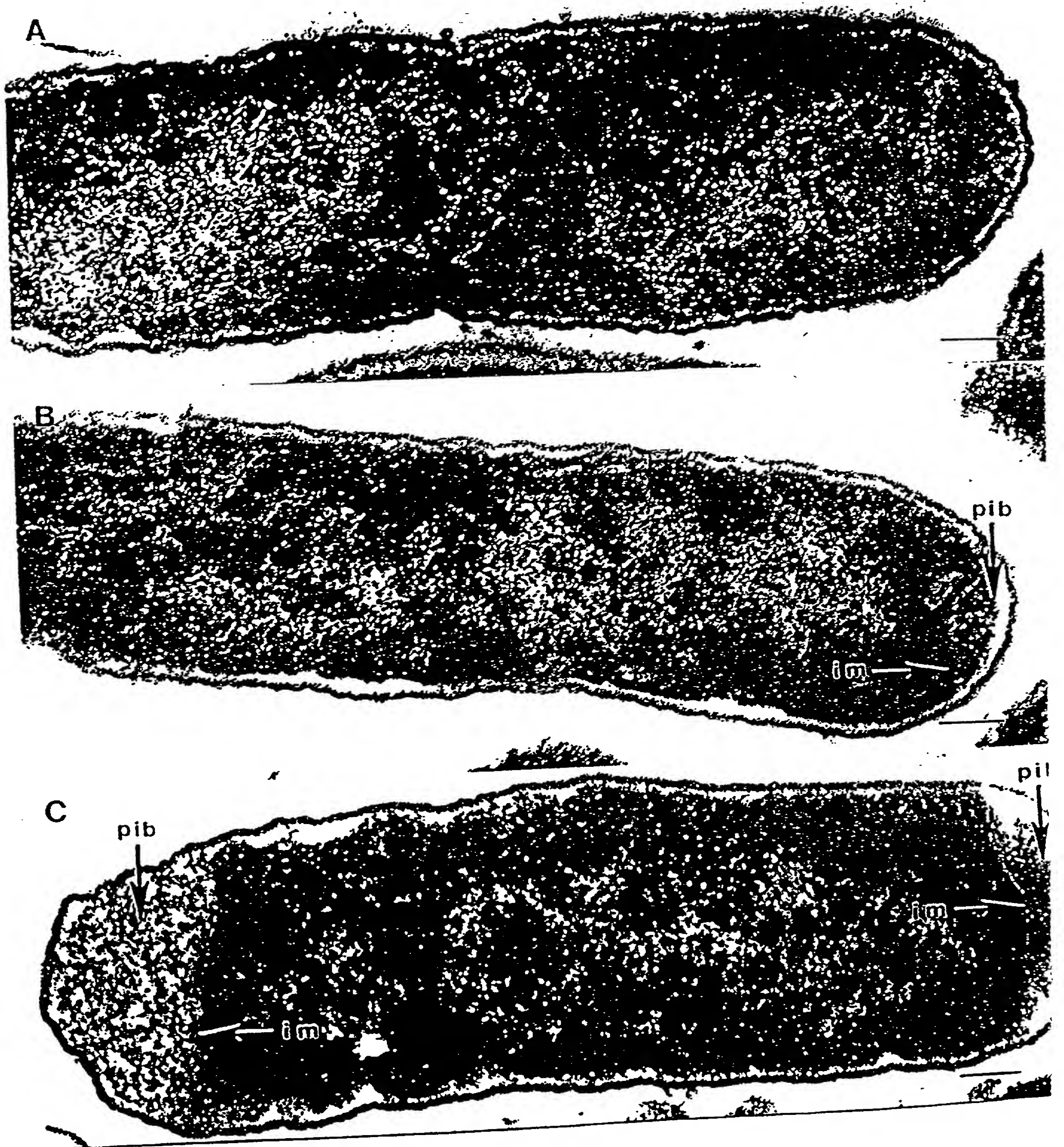


Fig. 7

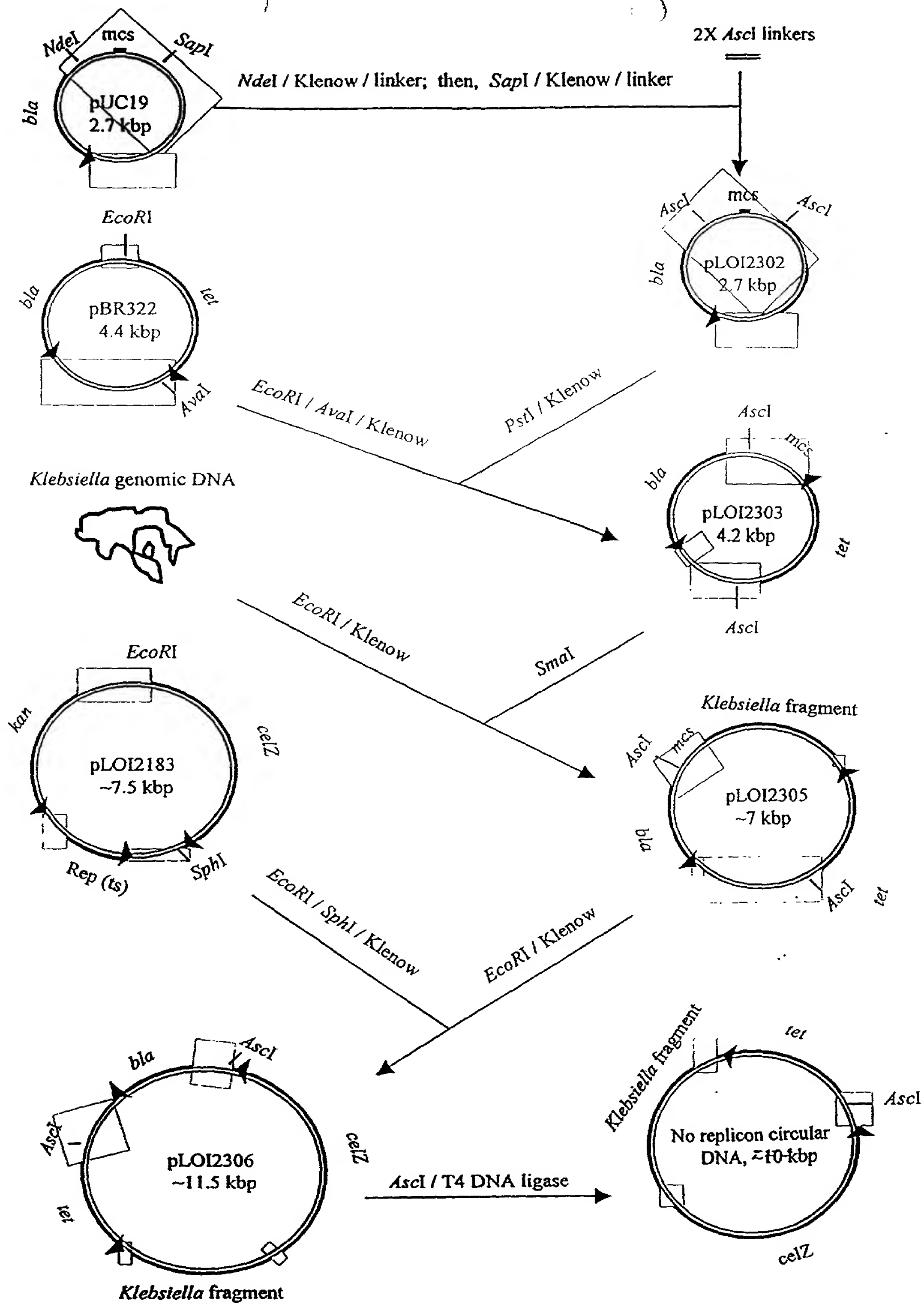
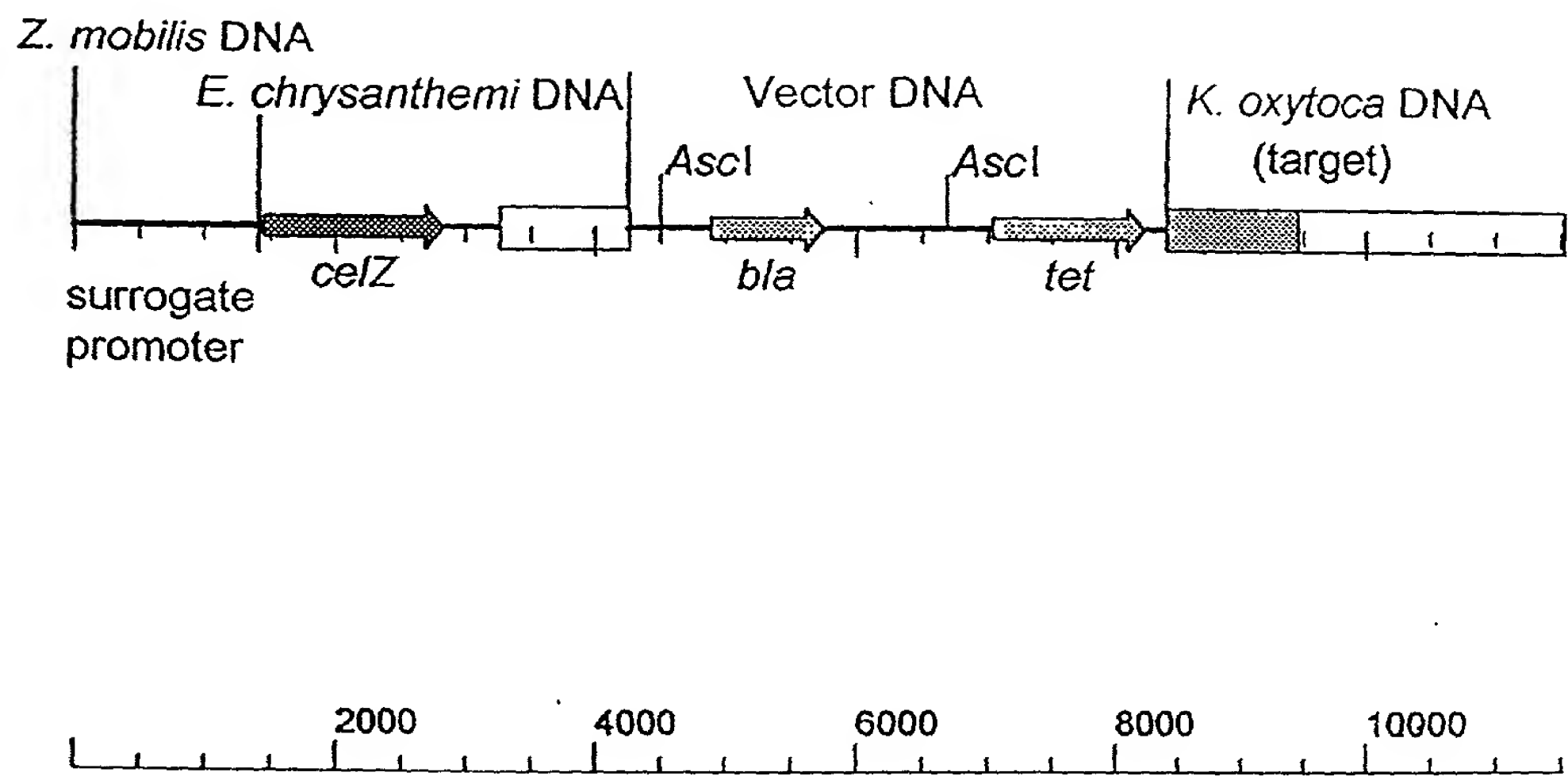


Fig. 8



pLOI2306 (11520 bps)

Fig. 9

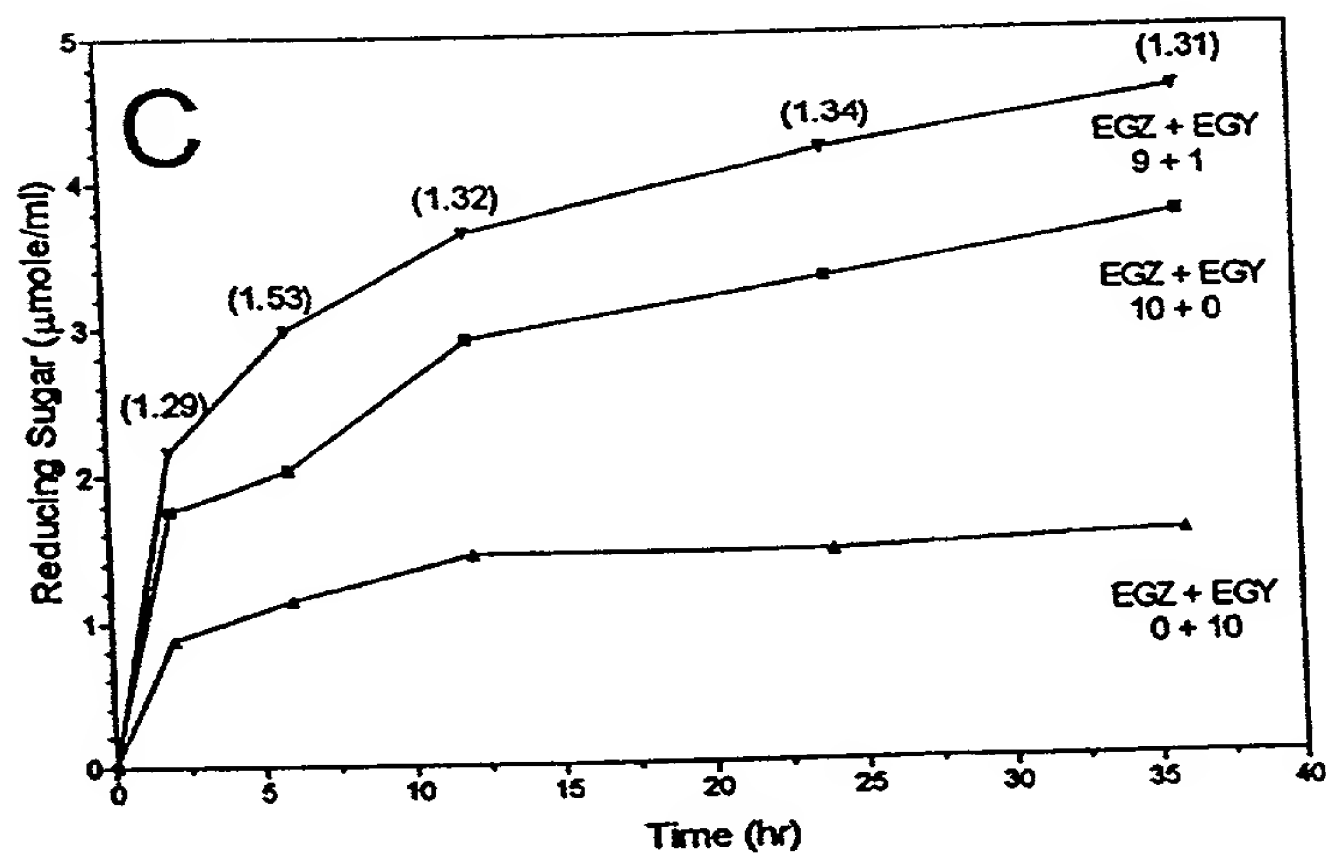
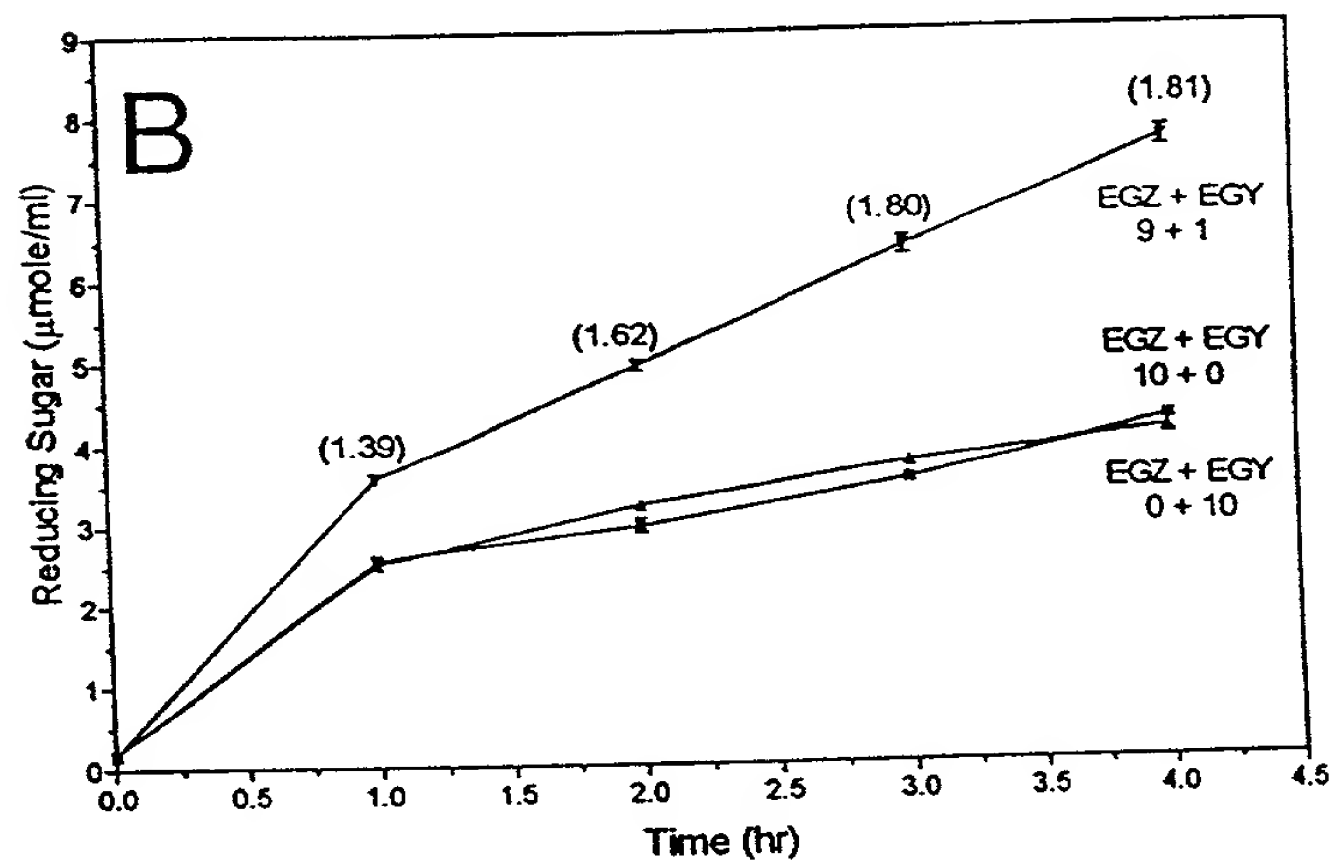
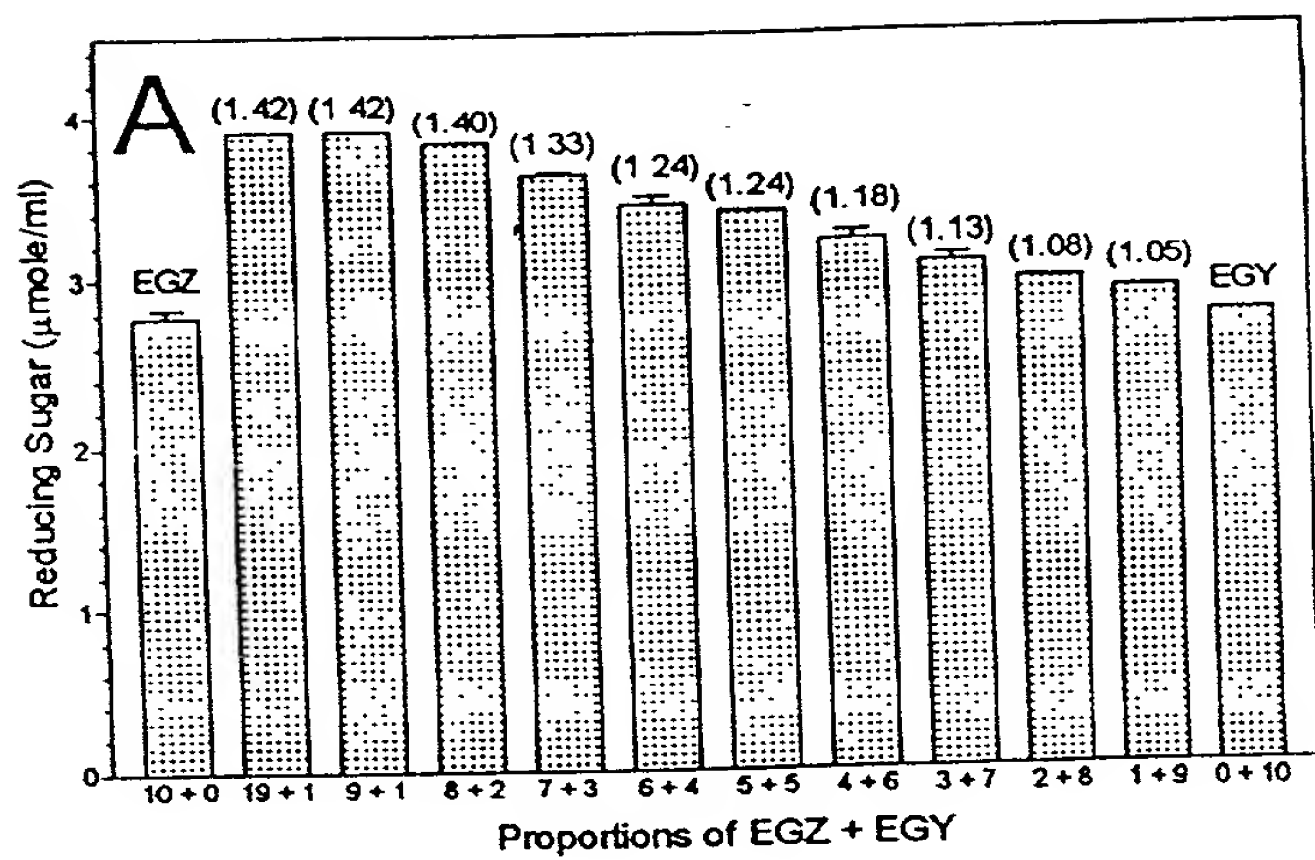
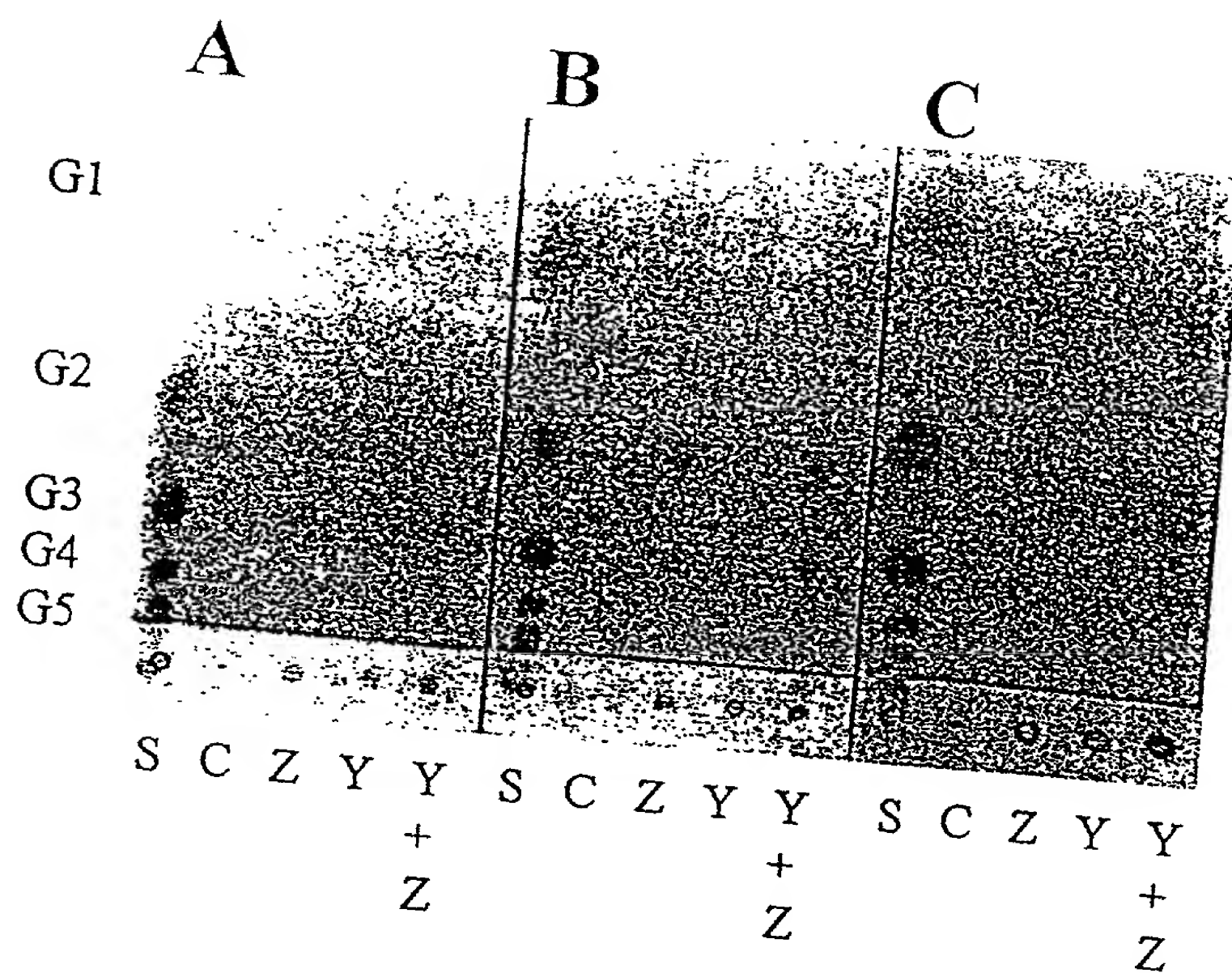


Fig. 10



04E8997 051304
TDS T99 / 688899

Fig. 11

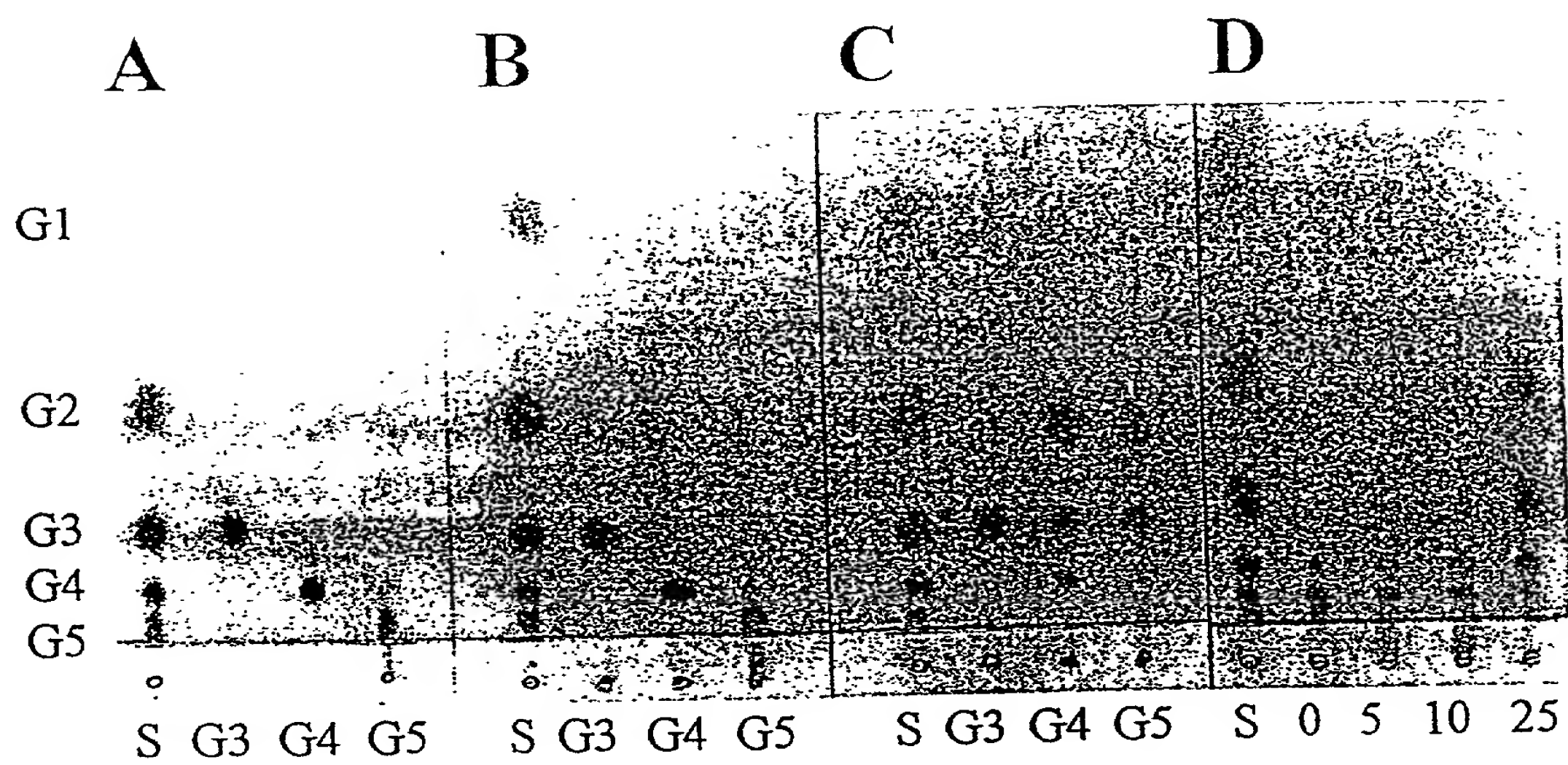


Fig. 12

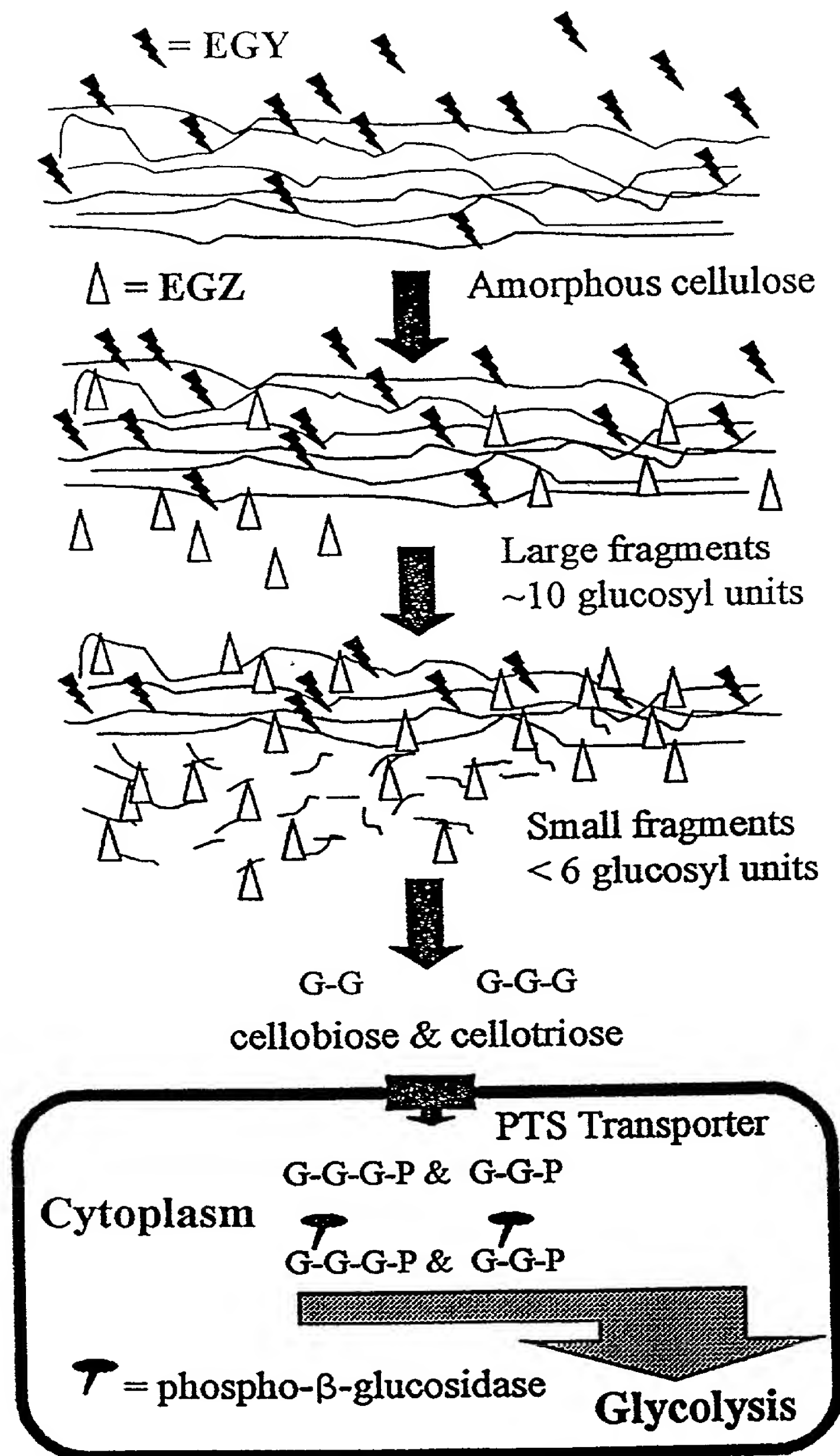


Fig. 13

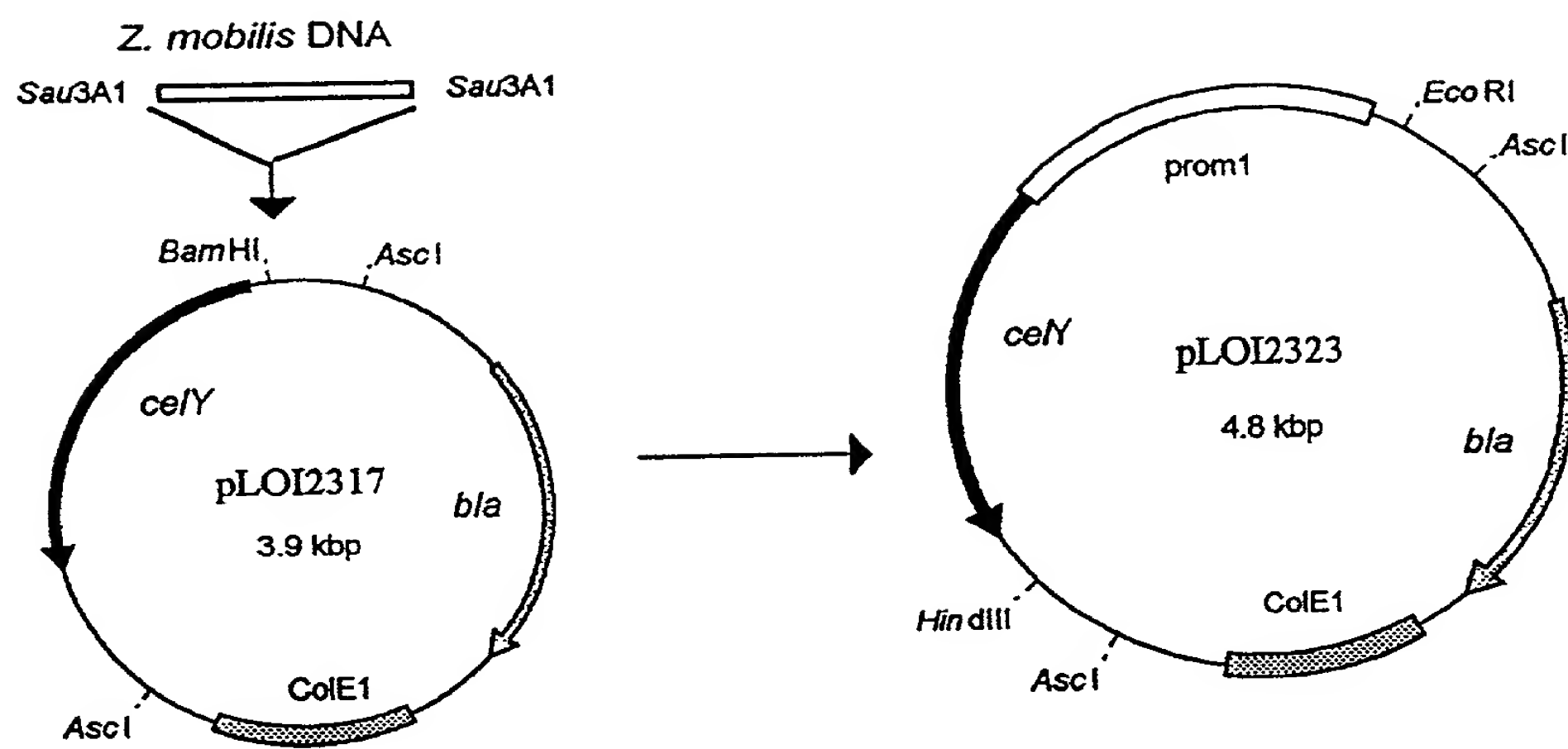


Fig. 14

Position (bp)	-35	-10	RNA Start	Proposed δ factors	δ factor consensus sequence	
					-35	-10
	ATATTTTGATTTTCAAGAAAGCCTGATATCTTCCAAACATCTT		T (2)	δ^{70}	TTGACA	TATAAT
	GATTGATCCTCTAGAGTCAACCTGCTTGTACTCGTGATCCCAT		A (4)	δ^{70}	TTGACA	TATAAT
	GAGTCAACCTGCTTGTACTCGTGATCCCATTCACAAGGCGGAA		C (1)	δ^{32}	CTTGAAA	CCCCAT
	TTACTCGTGATCCCATTCACAAGGCGGGAATTAAATTCGCCCTT		C (3)	δ^{38}	CCGCCT	TATACT

* Transcriptional starts for *ce/Y* were identified by primer extension analysis. Four promoters were identified. Upstream sequence of these promoters with similarity to *E. coli* -35 and -10 regions are marked with underlines. RNA start sites are bolded. Putative promoters are numbered in parenthesis adjacent to the start site in descending order from the strongest. Differences in intensities were small, within 2-fold.

Fig. 15

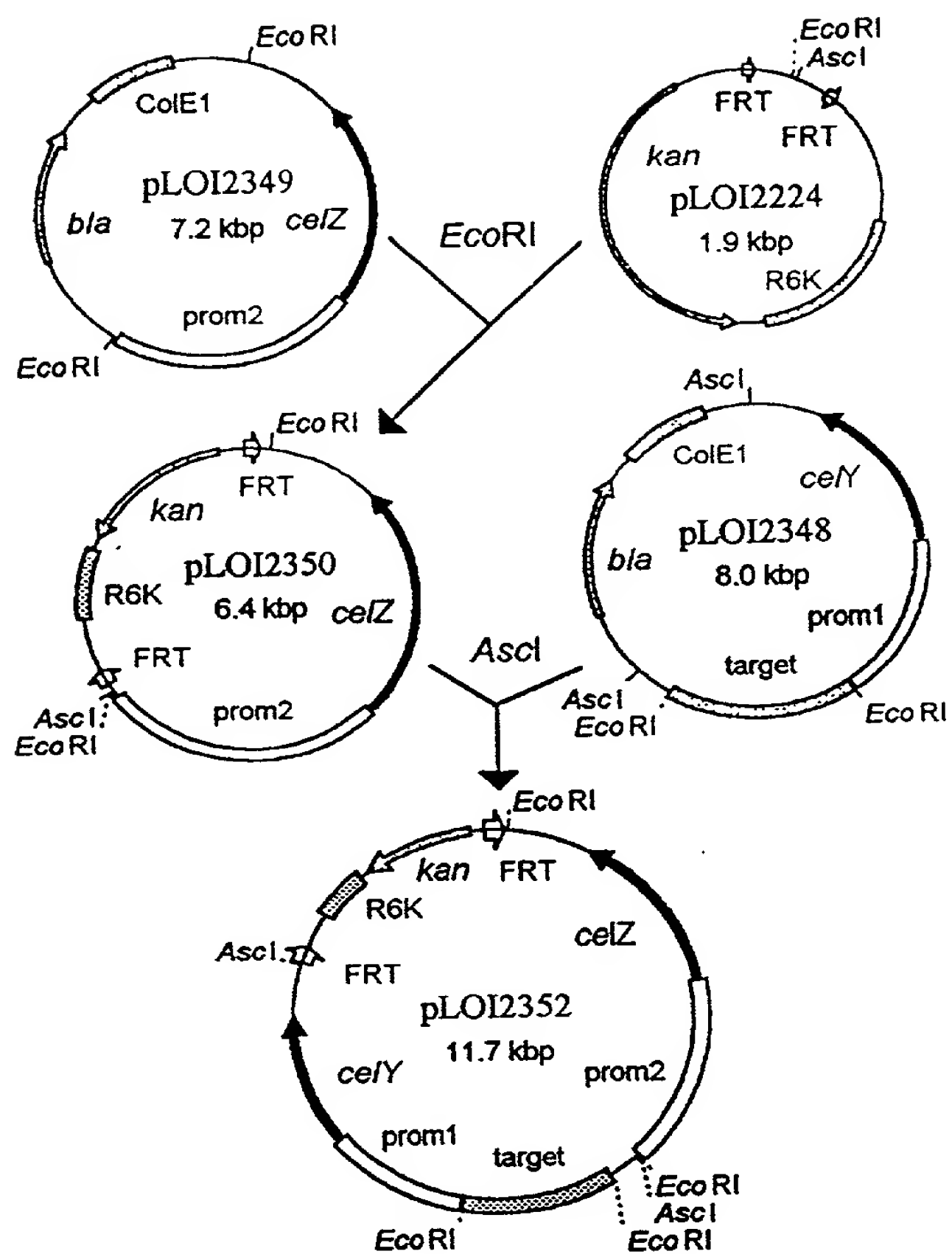


Fig. 16

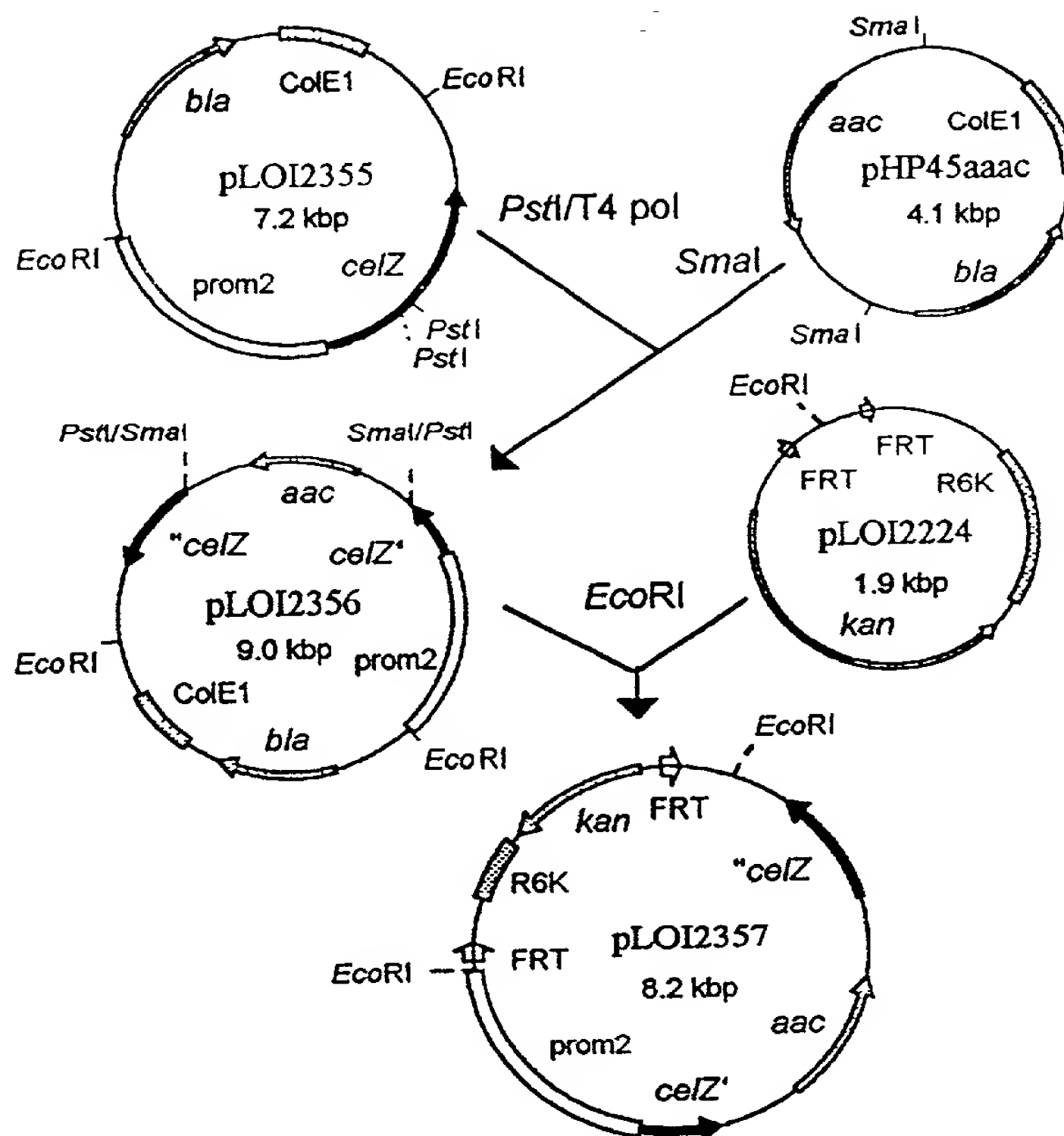


Fig. 17

A

K. oxytoca P2
(pCPP2006)
No endoglucanase

B

K. oxytoca SZ21
(pCPP2006)
CelY and CelZ

G1

G2

G3

G4

G5

G6

G7+

0 h

10 h

36 h

0 h

10 h

36 h

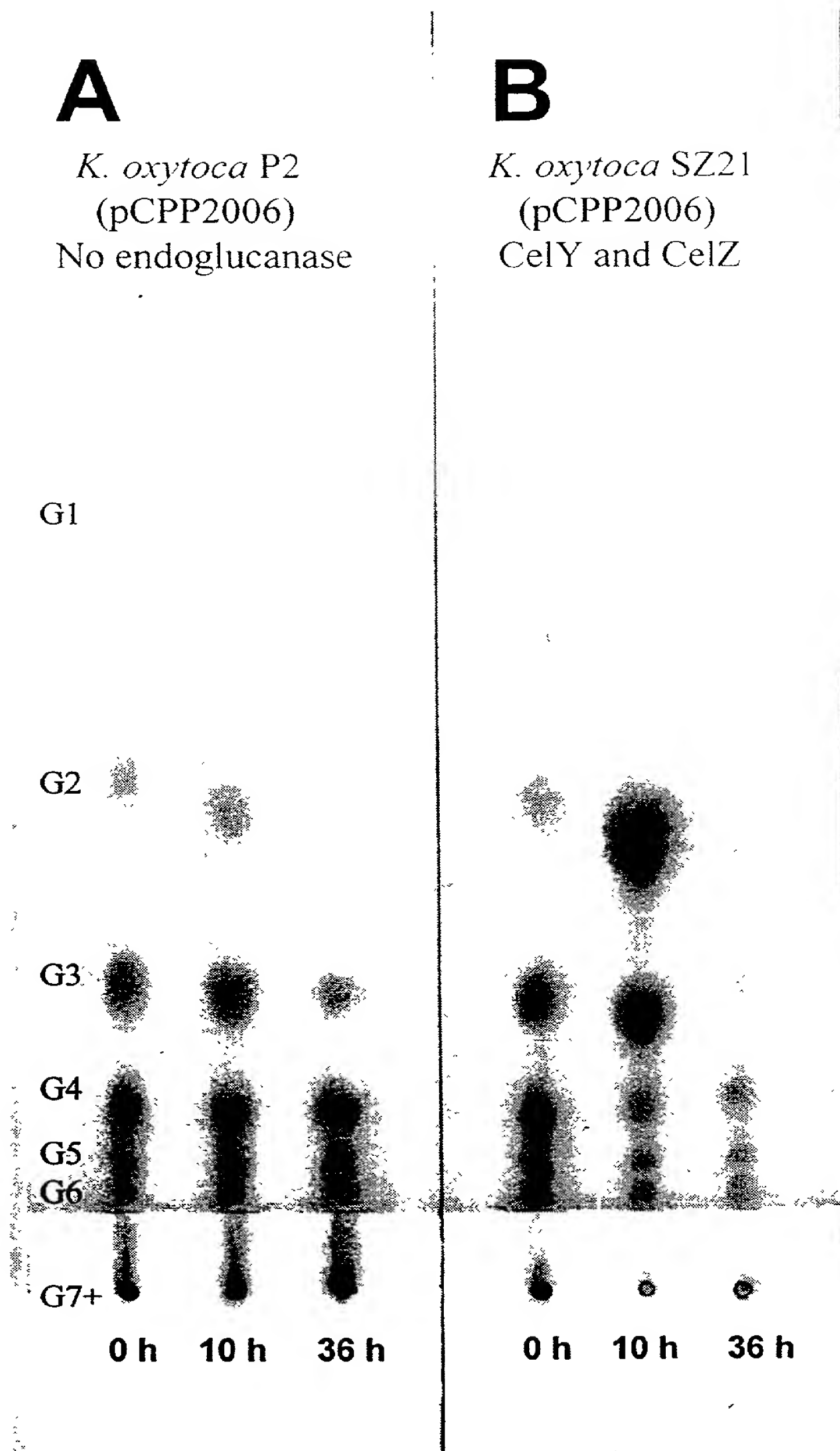


Fig. 18

